# DoD IT Standards Management Brief

#### Mr. Len Tabacchi

ASD(NII)/DoD CIO Interoperability Team 703-607-0556

leonard.tabacchi@osd.mil

May 19, 2004



### IT Standards Topics

- Status of DODD 5101.dd
- Why We Need to Transform the IT Standards Setting Process
- Standards Setting Governance Framework
- Standards Setting Process
- IT Standards Working Group Framework
- DISR Content
- Major Milestones

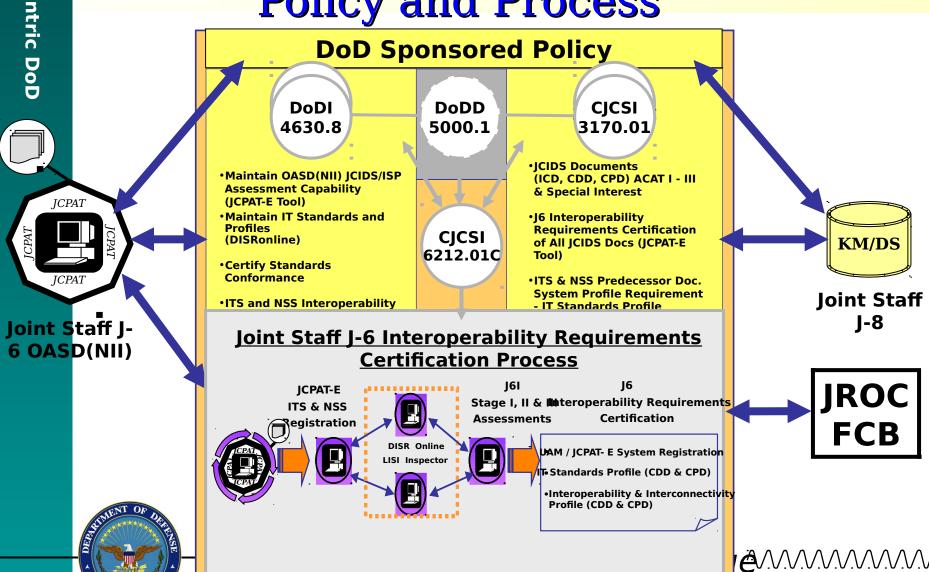


# DoDD 5101.dd DoD Executive Agent for IT Standards

- DA&M briefed on draft directive on 6 May 2004.
- DA&M signed Action Memo conveying package with Directive to DepSecDef on 6 May 2004.
- ES&CD/WHS finalized package prior to submittal for DepSecDef signature on 13 May 2004.
- Best guess by ODA&M staff: should be signed within the next week.

  Power to the Edge MANAMANA

# Interoperability and Supportability Policy and Process



4

#### Why Transformation is Needed

- DoD Senior Leadership has Voiced Concern that:
  - -JTA Revision Cycle is too Long and Unresponsive
  - -JTA Standards are too Numerous and Outdated
  - -IT Standards Process is not Sufficiently Focused on Implementing Net-Centric Concepts
- Since IT Standards Management Plan was Announced Nov 1993:
  - -Title 10 USC Assigned the DoD CIO with Responsibility to Ensure IT and NSS Standards that will Apply Throughout the DoD are Prescribed
  - -DoD 4630.5 and DoDI 4630.8 Revised DISA Responsibilities for IT Standards
  - -DoD Adopted Capability-Based Requirements Process using Integrated Architectures as a Tool (CJCSIs 3170.01 and 6212.01)

Dopp 5101.dd will Formally Assign DISA as Executive Agent for IT Standards Power to the Edge MANAMANA

ISA has Regressized IT Standards Management

09/0

### Transformation Objectives and Precepts

#### **Objectives**

- Champion DoD's Re-Engagement of the IT Standards Communities
- Online IT Standards Registry
- Quarterly Update of IT Standards Registry
- Agile but Accountable Governance
- IT Standards Conformance and Compliance Process
- Intelligence Community Involvement
- Improved DoD Visibility and Participation in IT Standards Development Organizations
- Standards Profiles (TV-1) for all Programs

#### Precepts Precepts

- Responsive Governance:
  - Accountable to DoD CIO EB
  - SES/Flag Officer Policy and Direction
  - 06-level Coordination, Issue Adjudication
  - SES/Flag Issue Adjudication, IT Standards and Profile Approval
- Key provisions:
  - Common Online Database of IT Standards and Profiles (DoD IT Standards Registry)
  - ➤ Technology/CES, Domain, and System Profiles
- Standing IT Standards
  Working Groups Organized
  Powericocoffee English Service



#### IT Standards Governance

CIO EB

Chair: ASD NII/DCIO

- Overarching Guidance & Direction
- Policy
- Strategic Planning
- Final Arbiter

**Standands Panel** 

**Tri-Chairs:** USP&ATAH)/DCIO &  $e_{6}$ 

- Issue Resolution Planning
  Implementation Priorities
  Programmatic
- Direction

Recommend

Periodic Review

IT Standards Committee

**Chair: DISA GE332 Apod** i Bretbby IT Standards)

- Management
- Pisactination Coordination
- Adoption
- Priority Setting
- Project Oversight
- IT Standards **Programa**ation
- Cross Functional Integration

**IT Standards** Working GroupsAppointed

**ISWG Chairs:** by **DoD EA for** IT Standards)

- Work Plan Proposal
- Technical
- Peyelopment Gallaboration
- Synchronization
- Implementation

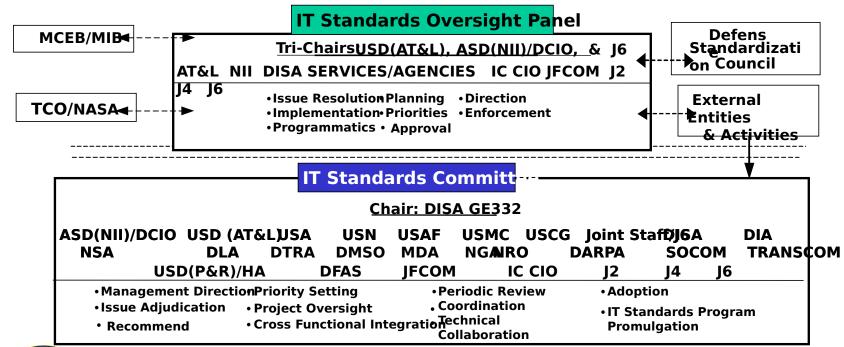
- Technical
- -Harmonization
- Technical **Development**
- External Representati
- Technical Collaboration



Power to the Edge MANAMA

#### IT Standards Governance Membership







#### Role of the Chief Information Officer Executive Board (CIO EB)

- IT Strategic Planning
- Establishes Policies that will Facilitate IT Standards Interoperability
- Provides High-Level Guidance and Direction for the DoD Adoption of IT and NSS Standards
- Approves Changes in Scope and Applicability of the DISR
- Is the Final Approving and Adjudicating Authority for the DISR



## Role of the IT Standards Oversight Panel (ISOP

- Prioritizes and Synchronizes IT Standards Direction in DoD
- Approves IT Standards and Profiles
- Coordinates with MCEB and Defense Standardization Council
- Determines and Recommends Changes in Scope and Applicability of the DISR to the CIO EB
- Appoints Members to the ITSC



# Role of the IT Standards Committee (ITSC)

- Recommend Standards and Profiles for Approval by ISOP
- Manage the Standards and Standards Profile Review Process
- Configuration-Manage the DISR
- Refer Change Requests to Appropriate ISWGs for Evaluation
- Resolve Unresolved Change Requests Raised from the ISWGs
- Form or Disband Ad Hoc ISWGs to Address Specific Technical or Non-Technical Issues
- Ensure that Mandated Standards are Entered into the DODISS Database



## Role of the IT Standards Working Groups

- Identify New Standards to include in DISR
- Elevate Emerging Standards to Mandated Status Once the DISR Selection Criteria has been Met
- Update Existing Standards to Reflect Latest Release
- Sunset Standards Identified as Being Near the End of Their Lifecycle
- Retire Standards No Longer Essential to Interoperability
- Identify, Develop, Maintain Standard Profiles that Facilitate a Net-Centric Environment



#### ITSC POCs (Partial List)

**DISA (GE33):** Mike Oconnor (Chair)

ASD(NII- A&I): Len Tabacchi

Joint Staff: Robert Allen (J2), Freddie Allen (J4),

**Charles Schaffer (J6)** 

**USD (AT&L-A&S): Ken HongFong** 

**Army CIO:** John Shipp

Navy (NAVSEA): Jerry Murdock

**USMC (MCSC): Joe Johnson** 

AF/XIWA: Col Alan Moore

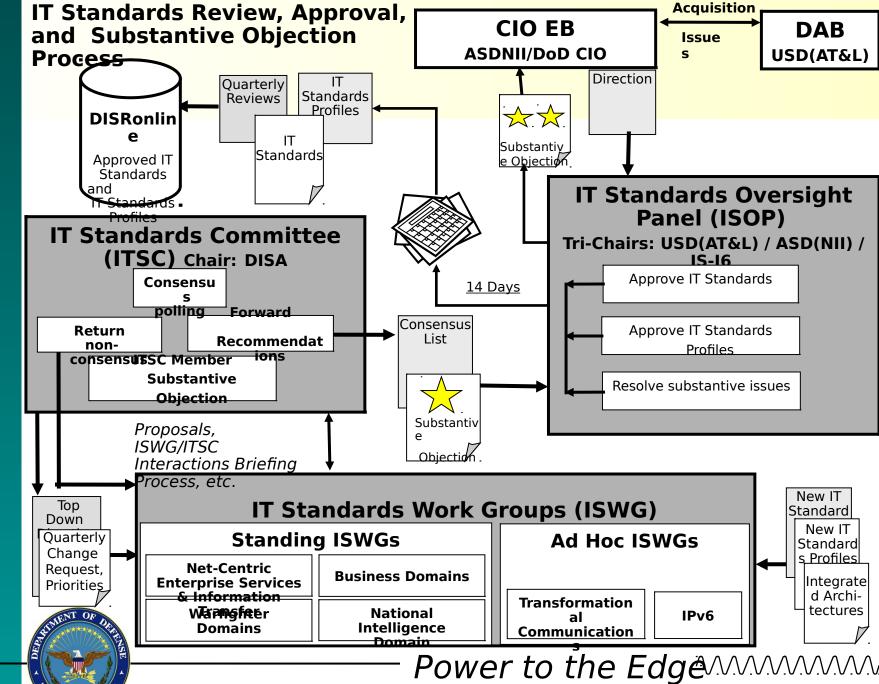
DIA (G2): Rubin Jacob

**DFAS:** Niki Bryant

IC CIO: Mark Bootz

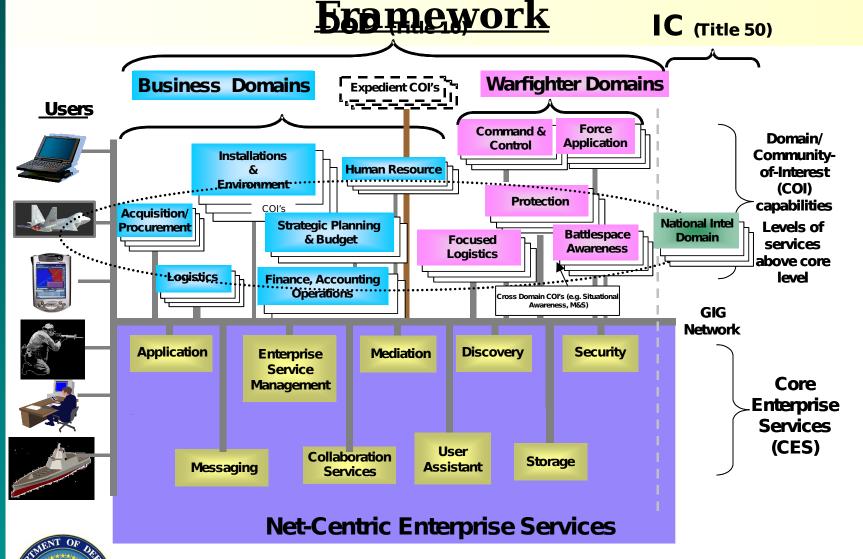
**NSA:** Jim Brett





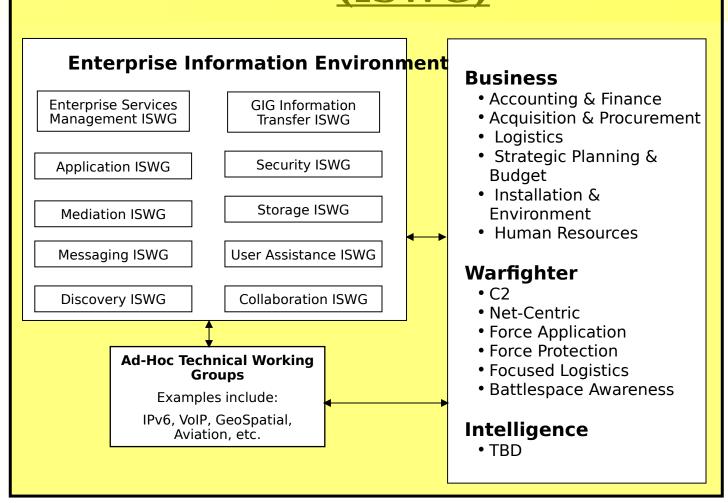
14

#### ISWG's Based on Top Down GIG-ES



Power to the Edge MANNAMA

### IT Standards Working Groups (ISWG)





#### ITSC-ISWG Chairs (Partial List)

IT Standards Working Group Chair

- GIG Information Transfer Don Choi
- Application Ken Dolson
- Collaboration Klaus Rittenbach
- Discovery Bill Wong
- Enterprise Service Management Bill Wong
- Mediation Elaine Babcock
- Messaging Lynda Dallas
- Storage Carl Young
- User Assistant Carl Young
- Security/Information Assurance (IA), Cryptologic, and Intel Russ Richards



### DoD Information Technology Standards Registry (DISR) Content

Governance & General						
Information Area	High Visibility Technology Profiles	Domain Stds Profiles	CES Stds Profiles	NCOW TV-2		
Policy	IPv6	Warfighting	Discovery			
FAQs	PKI Etc.	Business DoD Intel	Messaging Applications Security			
CM Drago duras			Etc.			
Procedures	GIG Ke	Interfaces to				
User Guides	Old Re	Analysis Tools & Related Repositories				
Links	Syster (PM-buil					
POCs	Profile A	(DARS, JCPAT-E, LISI Inspector)				

#### **Standards Repository**

(Tags: Mandated, Emerging, Sunset, and Inactive/Retired)



#### Major Milestones/Implementation

- DoDD 5101.dd, **Schredutive** Agent for IT Standards"
- DoD IT Standards Management Plan, Charters,
   & SOP
- DoD IT Standards Registry (DISR) Development

• Form IT Standards Oversight Panel (ISOP), IT Standards Committee (ITSC), and IT Standards

2004	Working	Groups (ISWGs)			
Feb	Ma	Apr	Ma	Ju	
All the the		Sold Of Co.	y '	· Sign Dodd Stores & Sop & 17	
Pedictional Dish	Draft ITSC CHAPTER 13	To ISM CS OS MAINS STAR POWE	PODULATE DISA TO ADT.  TO ANTE DISA DEL OO ADT.  TO ALE DISA DEL OO ADT.  TO ALE DISA DEL OO ADT.	Sign Dodd Stores & Sop & 17	
Stock Stock	SACS CAS.	The Man OS May STO	TOP OTOP	THOM STON GOOD IN	Mig
76	Ochor	O3 A Pan Tax To Star 1.04	20 A ADA	is ide	\$ \f
ALIVENT OF DESCRIPTION	b 8 6	A TON	TON SON		
	]	Powe	er°to the B	<i>=daĕ</i> \\\\\\\	\\\\\\

19

#### **Summary**

- Responsive and Agile Governance Structure
- Standing Technical Working Groups Address Day-to-Day Standards Issues
- ISWG Standards Groups Organized by GIG Core Enterprise Services
- Intelligence Community Involved at All Levels
- DoD IT Standards Registry (DISR) Contains:
  - ISOP-Approved IT Standards

DICD Decelies a Head at al Occasionales

- ISOP-Approved Postandans Pagales

20

### Questions?



## Back-up



### List of Acronyms

- ASD(NII) Assistant Secretary of Defense (National Information Infrastructure)
- CES Core Enterprise Services
- CIO EB Chief Information Officer Executive Board
- CIWG Collaboration Interoperability WG under the MCEB
- CJCSI Chairman of Joint Chiefs of Staff Instruction
- CoI Community of Interest
- DGCS Distributed Common Ground Systems
- DISR DoD IT Standards Registry (Replacing the JTA)
- DoDD DoD Directive
- DoDI DoD Instruction
- DODISS Department of Defense Index of Specifications and Standards (DoD's Single stock point for Military specifications, Stds and related publications)
- EA Executive Agent
- FCB Functional Capabilities Board
- FCS Future Combat Systems GIG Gigabit Enterprise Services
- ISOP IT Standards Oversight Panel

- ISWG IT Standards Working Group (under the ITSC)
- IT Information Technology
- ITSC IT Standards Committee (Replacing the JTADG)
- JCIDS Joint Capabilities Integration and Development System
- JCPAT Joint C4I Program Assessment Tool
- JROC Joint Requirements Oversight Council
- JTRS Joint Tactical Radio System
- KM/DS Knowledge Management/Decision Support Tool
- MCEB Military Communication Electronics Board
- NSS National Security Systems
- SES Senior Executive Service
- Std Standard(s)
- TV-1 Technical View 1 See DoD Architecture Framework
- WG Working Group
- WIN-T Army Warfighter Information Network, Tactical

Power to the Edge MANAMA

#### Required Architecture Products

	Ne	et-F	Rea	dy	Key	/ Pe	erfo	orm	and	ce F	Para	amo	ete	r Pı	rod	ucts
		Supporting Architecture Products														
Document	AV-1	OV-1	OV-2	6-/0	0V-4	00-5	OV-6C	SV-1	SV-4	SV-5	SV-6	TV-1	NCOW RM Correlatio	KIP Compliance	IA Compliance	LISI Profile
ICD		Χ											X			
CDD	Χ		Χ		Χ	Χ	Χ		Χ	Χ	Χ	Χ	Χ	Χ	Χ	X Basic
CPD	Χ		Χ		Χ	Χ	Χ		Χ	Χ	Χ	Χ	Χ	Χ	Χ	X Complete
CRD		Χ		1		2							2	2	2	
ISP	3	3	3		3	3	3	3	3	3	3	3	3	3	3	X Complete

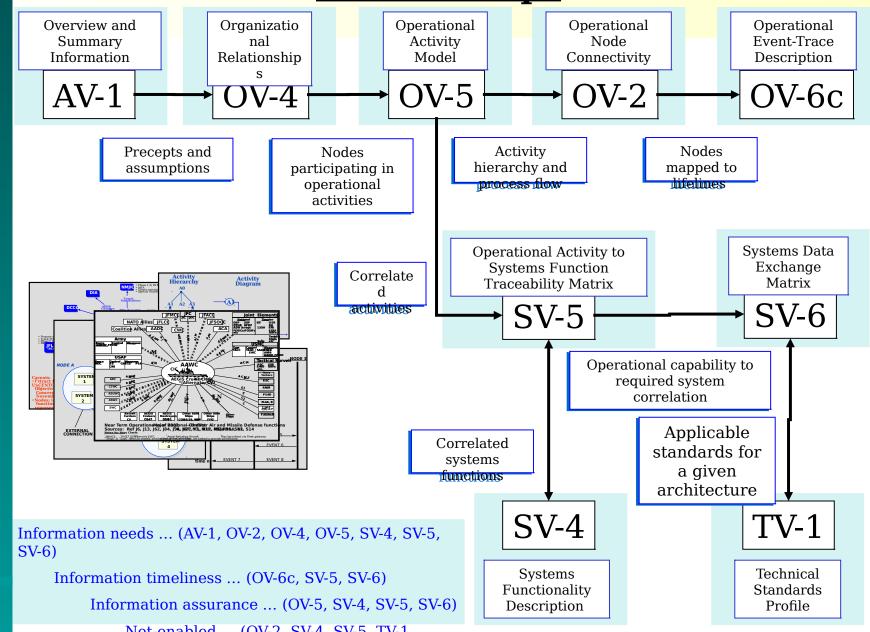
Note: X= Required

- (1) Old/Legacy CRDs Updates
- (2) New CRDs
- (3) ACAT, Non-ACAT and Fielded Systems. NR KPP products produced for the CDD and CPD will be used in the ISP



Power to the Edge

#### Integrated Architecture Product Relationships



#### **Profile Definitions**

#### 1.CES/Technology Profiles

- Developed by IT Standards Committee (via the IT Standards Working Groups) and *Approved* by IT Standards Oversight Panel
- Technology-Based (e.g., VoIP, IPv6) or generic information transfer profiles (e.g. GIG Technical Information Transfer Profile and CES generic profiles)

#### 2.Domain Profiles

- Developed and Approved by Warfighter and Business Domain CoI's (external to IT Standards Committee), and other CoI's related to IT Standards Working Groups
- Functionally aligned with GIG Domain CoI's and/or other CoI's (i.e., Aviation) includes all required standards
- Includes CES/ Technology Profile standards (possibly with options specified)

#### 3. System Profiles (Project/Program)

Developed by PMs and compliance verified by EA

ancludes standards from Domain and Development facilitated by DISR and IT

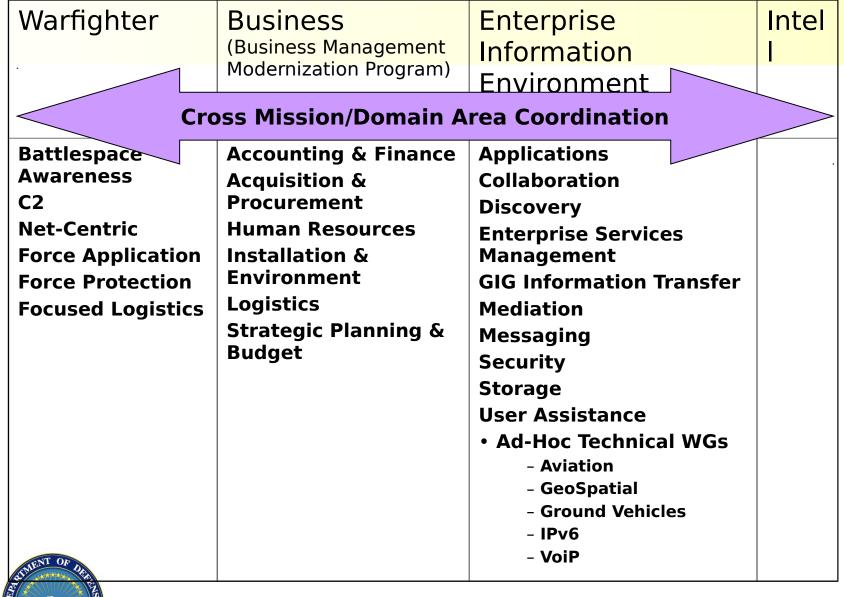
CES/Technology **Profiles** 

> Domain **Profiles**

System **Profiles** 

26

#### GIG Portfolios/ISWG Framework





#### Key Interface Profiles

- ☑ Refined Operational View
- ☑ Refined System View
- ✓ Interface Control
  Specifications -- Interface
  Control Document (ICD)
- ☑ Technical View & SV-TV Bridge
- ☑ Configuration Management Plan
- ☑ Procedures for standards conformance and interoperability testing

reference

implementations

	<u>CommunicationsKIPs</u>							
1.	Logical Networks to DISN Transport Backbone							
2.	Space to Terrestrial Interface							
3.	JTF to Coalition							
4.	JTF Component to JTF Headquarters							
5.	Teleport (i.e., deployed interface to DISN)							
6.	Joint Interconnection Service							
7.	DISN Service Delivery Node							
8.	Secure Enclave Service Delivery Node (e.g., SCI/Collateral KIP)							
	<u>ComputingKIPs</u>							
9.	Application Server to Database Server							
10.	Client to Server							
11.	Applications to COE/CCR NCES/GES)							
	Network Operations KIPs							
12,	End System to PKI							
13.	Management Systems to (integrated) Management Systems							
14,	Management Systems to Managed Systems							
15.	IDM to Distribution Infrastructure							
16.	Information Servers to IDM Infrastructure							
	Applications							

Power to the Edge MMMM

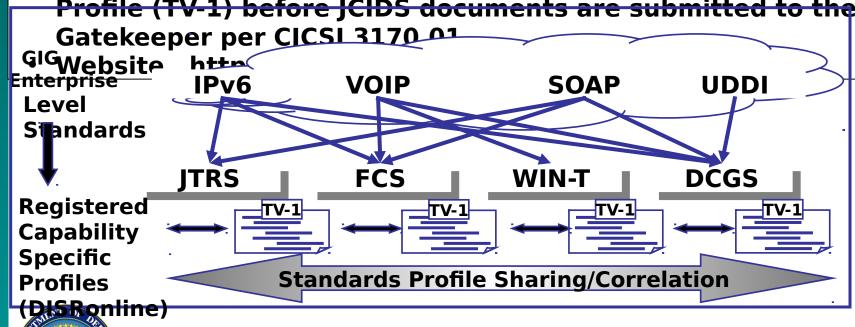
gineering Management

#### So You Want To Be Involved In IT & NSS Standards?



#### **DISRonline Capability**

- DISRonline is DoD's electronic web-accessible database of IT standards that provides the minimal set of information technology standards adopted by Services, Agencies, and Combatant Commands consensus to enable Joint/Combined interoperability
- DISRonline database structure ensures that PMs use a structured process to develop their system's IT Standards Profile (TV-1) before JCIDS documents are submitted to the Gatekeeper per CICSI 3170 01



Power to the Edge MANNAMA

#### **Definition of ITSC**

#### What constitute Onsensus Webster's

<u>Definition:</u> General agreement, the judgment arrived at by most of those concerned.

#### What Exactly Is ITSC Consensus?

- ITSC consensus is a decision making process which equalizes power over the ITSC.
- Instead of simply voting for an item, and having the majority of the ITSC get their way, the ITSC has to sit down and get a solution to a problem that the ITSC agrees with.
- ITSC members take different ideas and the ITSC Chair sees how the ITSC members feel about these ideas.
- The solution that the ITSC thinks is the most positive gets chosen, unless a member of the ITSC finds the solution totally unacceptable.
- That ITSC member would then raise a "Substantive Objection."

TISC Consensus is based on compromise, and the ability to mmon ground.

Power to the Edgewww.

#### Why Would the ITSC Want to Use

- Consensus is a system that promotes participation because each ITSC member has the power to make changes in the system, and to prevent changes that they find unacceptable.
- Since ITSC consensus gives each ITSC member the power to have their voice be heard, it forces the ITSC body to listen to each other, and answer concerns raised instead of moving past these issues.

Power to the Edge

#### But, What's Wrong with a Majority

- The major**RyleuSystyste**m is set up to have a winner and a loser.
- This promotes conflict, and lends itself to steamrolling an idea over a minority that dissents with the majority opinion.
- People in a majority rule system don't need to listen to the dissenting minority, or take their opinion seriously because they can simply outvote them.
- Majority rule systems say that the majority is infallible and they have nothing to learn from the himself